

# BOARD OF COUNTY COMMISSIONERS

## AGENDA ITEM SUMMARY

Meeting Date: 16 April 2003

Division: Growth Management

Bulk Item: Yes X No       

Department: Marine Resources

### AGENDA ITEM WORDING:

Approval to pay Paul Lin and Associates for a stability analysis completed on the Spiegel Grove after premature sinking in May and later righting

### ITEM BACKGROUND:

Permits were issued for the sinking of the U.S.S. Spiegel Grove as an artificial reef off Key Largo by ACOE and by NOAA. A stability analysis was required for the proposed location and position of the ship at the permitted artificial reef location. When the Spiegel Grove sank prematurely and ultimately was laid on its side, it lay at a different angle than proposed and on its starboard side not upright. NOAA and the USCG required that a new stability analysis be completed in order to validate stability in the ship's actual final position and orientation. The firm of Paul Lin and Associates provided a quote for the job as the marine engineer that had completed the first stability analysis. The cost of the stability analysis was \$4,000. Funds will be provided using the Boating Improvement Funds.

### PREVIOUS RELEVANT BOCC ACTION:

Approval of the Spiegel Grove project.

### CONTRACT/AGREEMENT CHANGES:

NA

### STAFF RECOMMENDATIONS:

Approval

TOTAL COST: \$4,000

BUDGETED: Yes X No       

COST TO COUNTY: \$4,000

SOURCE OF FUNDS: Fund 157, BIF

REVENUE PRODUCING: Yes        No X AMOUNT Per Month        Year       

APPROVED BY: County Atty X OMB/Purchasing X Risk Management X

DIVISION DIRECTOR APPROVAL: Timothy McGarry Timothy McGarry, Director of Growth Management

DOCUMENTATION: Included X To Follow        Not Required       

DISPOSITION:       

AGENDA ITEM NO.: L3

**Paul Lin & Associates**  
P.O. Box 562800, Miami, FL 33256  
Tel: (305) 969-2177 / Fax: (305) 969-2759

17700

August 13, 2002

**INVOICE #446**

Mr. George Garrett, Director  
Dept. of Marine Resources  
MONROE COUNTY  
2798 Overseas Highway  
Marathon, FL 33050

**RE: STABILITY ANALYSIS FOR THE NAVAL VESSEL "SPIEGEL GROVE" SUNK AS AN  
ARTIFICIAL REEF OFF THE WATERS OF KEY LARGO, MONROE COUNTY,  
FLORIDA**

**PART I - ARTIFICIAL REEF STABILITY ANALYSIS**

100% Complete \$4,000.00

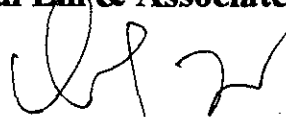
**EXPENSES**

Fax/Copy/Mileages/Postages \$76.20 X 1.1 = \$83.82

**TOTAL THIS INVOICE : \$4,083.82**

Should you have any questions, please contact me. Thank you.

Sincerely,  
**Paul Lin & Associates, Inc.**



Paul C. Lin, Ph.D., P.E.  
President

Coastal, Environmental, Engineering and Management